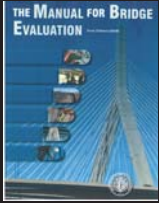


## BRIDGE ENGINEERING UPDATES

**Smart Bridge Technology** is the implementation of wireless sensors for bridge monitoring to vastly improve the safety of bridges nationwide. With the Smart Bridge Technology, engineers can get updates on a real-time basis. The following articles give further details on the new technology:

<http://online.wsj.com/article/SB123447510631779255.html>  
or <http://itecsinsider.com/>

The **AASHTO Manual for Bridge Evaluation, First Edition 2008**, serves as a standard and provides uniformity in determining physical condition, maintenance needs and low capacity of the nation's highway bridges. It supercedes 1994 and 2003 publications on bridge inspection/evaluation.



Bridgeport Mayor, Bill Finch, formally inaugurated the Bridgeport Parent Center at 900 Boston Ave, Bridgeport, CT. AI is very proud to be associated with helping the City of Bridgeport in the design and construction of the facility. The construction challenge included converting an unused, commercial/industrial structure into an attractive, energy efficient community center. The engineering/construction cost for the project is approximately \$1 million.

A child's first teacher is his/her parents and this mod-



Left: Bridgeport Parent Center Children's Room. Right: Parent Center Entrance on Inauguration Day.

ern facility was constructed to provide city-wide public school parents a comfortable, friendly and supportive environment. The goals of the center are to enhance parental and employment skills, obtain information on school and community

programs, enlighten them with educational, social and health issues, provide GED exam assistance, ESL and computer classes as well as a general networking of the parents.

## AI TECH BUILDING UPDATE

Though it may not be obvious to the daily passerby, there has been quite a bit of activity at the future site of our AI Tech Center, 3 Constitution Plaza in Hartford. Construction workers have been performing asbestos removal and certain permitted demolition. The future AI Tech Center is slated to be LEED certified and is utilizing specific demolition requirements in an effort to achieve points in obtaining such certification. Special equipment is being used for external demolition to lessen disturbance to the surrounding buildings. Our engineers are also concurrently embarking on the design plans of the AI Tech Center.

**Congratulations to Northeast Utilities for winning the 2008 Platts Global Energy Award in the category "Energy Construction Project of the Year" for the four southwest Connecticut transmission projects: Bethel-Norwalk, Long Island Replacement Cable, Glenbrook Cables and Middletown-Norwalk. AI is privileged to be part of the NU team on the Glenbrook Cables Project!**

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## Services

Transportation

Bridges / Structures

Highway / Civil / Site Design

Sustainable Design & Construction (LEED)

Architectural Engineering / Facility Design

Utilities / Power

Surveying / Land Development

Design - Build

Construction Management

Construction Engineering & Inspection

## INAUGURATION OF BRIDGEPORT PARENT CENTER

# AI News

A Newsletter About AI Engineers, Inc.

Volume 5, No. 1

2009

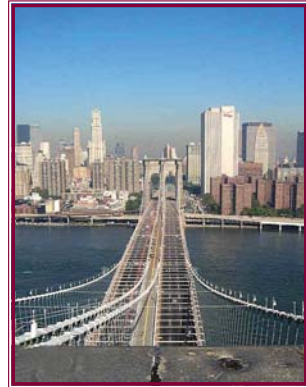
## EVOLUTION & GROWTH OF AI'S NEW YORK CITY OFFICE

Operating from the financial district at 99 Wall Street, our NY City Office continues to grow and provide services to major government/state and institutional clients in the greater New York City Metro Area. In its tenth year of operation, the office has served numerous clients such as NYSDOT, NYCDOT, the MTA, PANY&NJ, and the Veterans Administration to name a few. Despite the current economic downturn, AI continues to be involved in many interesting projects thanks to our high quality, client-service approach.

Our major recent successes include AI being selected for the NYSDOT Biennial Bridge Inspection Manhattan County, NYSDOT Region 11, 2009-2011 with subconsultants STV, Inc. and CV Associates, and recent selection by PANY&NJ to undertake updating the Construction Standards Manual to latest codes/practices. This success has been due to the dedicated and very committed staff led by our Vice President/Of-

ficer in charge of NYC operations, Parmjit Sahani, PE. Parmjit's 25 years of diversified experience in bridge/civil engineering and client and office management has been the catalyst for the office's success. Parmjit, a graduate of the Indian Institute of Technology, Bombay, continues to guide the development and growth of this office. Shyam Mulwani, PE, has helped establish a reliable and credible AI presence in NY with regard to our firm's bridge engineering/inspection capabilities. His career spans over 35 years of engineering experience including high and long span bridge inspection/evaluation.

"Having worked with Sahani and after seeing the growth of AI, *Cont on Page 2*



Above: Brooklyn Bridge, inspected by AI.



Above: Samer Hasson and Seung-Chul Ok at work in AI's NY office. Right: Aerial view of 99 Wall Street, in which AI's NY office is located on the 24th floor.

## MOVING & EXPANDING!

AI's Boston office has moved to:

**45 Bromfield Street, Suite 901**  
9th Floor  
Boston, MA 02108  
phone: 617-451-2828  
fax: 617-451-2822

"It was definitely time! We outgrew our previous office with the recent staff hires and are now in a more spacious workplace perfectly situated right in the hub of downtown Boston. AI and our clients are sure to benefit from the move." - *Basil Bantimba, PE, Engineer-In-Charge*

AI has added a new office in RI:

**63 Sockanosset Crossroad**  
Unit 4C  
Cranston, RI 02920  
phone: 401-270-5401  
fax: 401-270-5403

We are also pleased to announce the opening of our Rhode Island office in Cranston, managed by *Edmund Parker, Jr., PE*, formerly Chief Engineer of RIDOT. Ed is also a very experienced bridge/highway engineer who joined the firm in 2008 as Engineer-In-Charge of RI Office.

## VDOT LOAD RATING — REGION I

AI's recent selection for the Load Rating of Existing Structures Contract in the Bristol and Salem Districts of Virginia is yet another example of AI's regional expansion. This multi-year contract includes the rating of approximately 3,500 bridges ranging from culverts to major river-crossing structures; AI is utilizing AASHTOWare's VIRTIS 5.6 software for load rating. Given the size of the project, one of the unique challenges is gathering data and field information to be reviewed for load rating. However, with the help of Project Manager, Basil Bantimba, PE and Project Coordinator, Aslam Siddiqui, PE, AI staff and our subconsultants, Transystems and Alvi Associates, we are able to accomplish this feat. As a matter of fact, AI is well on schedule to complete the second batch of bridges, for a current total of 500 bridges.

## MESSAGE FROM THE PRESIDENT



In this issue we are highlighting the growth and successes of our New York City office. Starting from its humble roots more than ten years ago, this office continues to serve many, state, federal, and institutional clients. At the forefront of this success story is a dynamic and committed team of engineers, with company vision and guidance provided by Parmjit Sahani. The team continues to work hard, practicing diversification and continuous improvement of skills at every level. While maintaining and building their technical knowledge and skills in the engineering disciplines, enhancing their communication and interpersonal skills is also an ongoing program for these bright and energetic individuals. We embarked on this journey a few years ago, through the active engagement of our management team and staff members, and it's starting to show results. This emphasis on teamwork and communication has significantly improved our productivity, and made our production staff members recognize and appreciate the global purpose of their daily efforts, whether it's helping to maintain the safety of our bridges or designing a high performance building system. At the firm level, there is a commitment and action plan on staff training and development, including technical and interpersonal skills. If we can't pay attention to developing and improving the skills of our engineers, we shall not gain either as a business or as a community.

**Abul Islam**

## IN OTHER NEWS

- Transportation Research Board (TRB) held their annual transportation tradeshow in Washington, DC, in January. Muhammad Asif Iqbal, a Member of TRB, represented AI by running a booth (see photo).
- Daniel Whittemore, PE, LEED AP, Associate Vice President, gave a presentation about the new AI Technology Center at the I-91 Corridor, Regional Construction Forecast Program hosted by the Construction Institute.
- Abul Islam joined the Hartford Academy of Engineering & Green Technology Advisory Board and the CCSU Civil Engineering Advisory Board.
- AI was a proud Gold Sponsor of the CMSDC Banquet held on April 30th.
- AI's managers and senior staff are currently participating in Leadership Training to enhance problem solving and management skills.



Above: Muhammad Asif Iqbal at the TRB tradeshow.

## EVOLUTION OF NEW YORK OFFICE *cont.*



Shyam Mulwani, PE

"I'm privileged to join the team," said Shyam. Shyam loves bridge inspection, be it in a role of a Team Leader or a Quality Control Engineer. He is currently the QA/QC engineer for the NYS-DOT Region 11 project.

NYC continues to be the preferred destination of young professionals, including engineers, particularly, recent college graduates. AI continues to attract and add to the ranks of our current staff of highly skilled and motivated engineers. We also create a platform from which young engineers gain experience and be personally mentored in the office and on-site by more experienced engineers. Frank Liu, Parmjit Sahani, PE



Parmjit Sahani, PE

EIT, a recent graduate of Cornell University, has joined the AI rank as a Civil Engineer and continues to enjoy new and exciting work.



Frank Lui

"When I graduated from college I was looking for a challenging and interesting position," Frank said. "It's exciting to be a part of the AI Team and work on diverse projects like revising the Construction Manual for the Port Authority of New York and New Jersey (PANY&NJ) and doing structural flag repair for the Gowanus Expressway in Brooklyn." "We are very proud of the firm's growth at the NYC office," said Parmjit. "And we look forward to continue taking on challenging projects."

## NEW YORK STATE NYSDOT - REGION 11

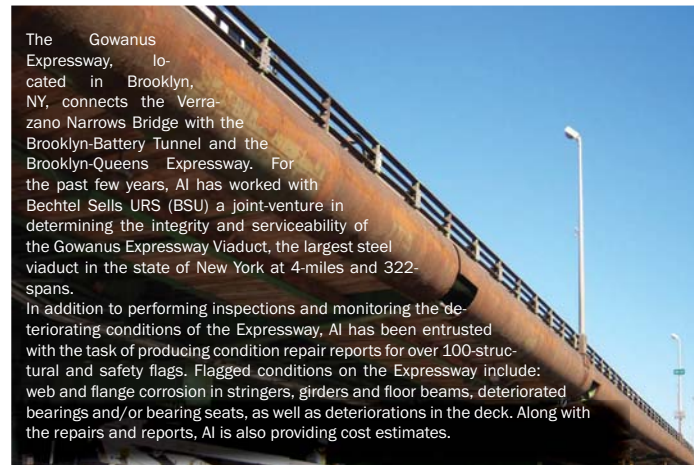
Other exciting news coming from AI's New York office is the recent designation by the New York State Department of Transportation to perform Biennial, Interim and Inspection of Bridges in NYSDOT Region 11. This prestigious project includes the visual inspection of 202 bridges/2,676-spans in Manhattan, which include major crossing and overpasses, over the duration of 2009-2011.

The project includes coordination of activities with clients such as Amtrak, the Port Authority of New York and New Jersey, MTA and Metro-North. Some of the major, complex bridges to be inspected include the Willis Avenue Bridge, multiple bridges over the Franklin D. Roosevelt/East River Drive (FDR Drive) and historic bridges in Central Park.

## PA OF NY & NJ MANUAL UPDATE

AI is in the finishing stages of updating the Engineering Construction Standards Manual for The Port Authority of New York and New Jersey (PANYNJ). The Manual's previous contents were reviewed, revised and rewritten by AI staff. The end result is a user-friendly, comprehensive reference tool updated with current construction engineering practices and inspection standards to be used by all inspectors working on PANYNJ projects.

## GOWANUS EXPRESSWAY



The Gowanus Expressway, located in Brooklyn, NY, connects the Verrazano Narrows Bridge with the Brooklyn-Battery Tunnel and the Brooklyn-Queens Expressway. For the past few years, AI has worked with Bechtel Sells URS (BSU) a joint-venture in determining the integrity and serviceability of the Gowanus Expressway Viaduct, the largest steel viaduct in the state of New York at 4-miles and 322-spans.

In addition to performing inspections and monitoring the deteriorating conditions of the Expressway, AI has been entrusted with the task of producing condition repair reports for over 100-structural and safety flags. Flagged conditions on the Expressway include: web and flange corrosion in stringers, girders and floor beams, deteriorated bearings and/or bearing seats, as well as deteriorations in the deck. Along with the repairs and reports, AI is also providing cost estimates.



## AI AT THE VA PROVIDENCE, RI

AI has an On-Call Construction Administration Contract with the VA Medical Center in Providence, RI. Since 2007, AI's Sr. Architect, Robin Hewey, RA has been on site working as a Resident/Contract Administrator, overseeing the construction of various facility projects at the VA hospital. Some specific projects included Phase 2 of the exterior repointing project on the six story Main Building and the replacement of the 6A and 6B Wing roofs. Robin has also performed Conversion/Remodeling of areas within the hospital as well as the Design and Project Management for a 7th floor electrical service relocation and Code and Contract

Document reviews for many of the Hospital's ongoing design projects. His current project is the renovation of the Psychiatry Ward and the OTP Clinic, which requires coordination and management of several departmental moves during this multi phase project.



Above: VA Medical Cnt., Providence, RI

## NEW MEXICO ENDEAVOURS - LUJAN BUILDING STUDY & DESIGN

AI has been recently selected to lead the engineering design of the Manuel Lujan Building Renovations, in Santa Fe, New Mexico. The project is for the New Mexico General Services Department Property Control Division and addresses major concerns in the buildings' existing HVAC units. John Lloyd, PE, LEED AP, Project Manager, will guide the team, consisting of AI Engineers, Conron and Woods Architects,



Above: Manuel Lujan Building Exterior, Santa Fe, NM

Inc. and M & E Engineering. Prior to the project being awarded, AI delivered an engineering study for the replacement of the existing mechanical and electrical systems. The study proposed the use of a highly efficient and LEED compliant dual-duct system that was well-received by the client. AI also provided a similar engineering study for the Tim Flemming Building in Santa Fe, NM.

## New Faces at AI...

**William Soares, PE**  
- Sr. Construction Engineer

**David King, LS**  
- Sr. Construction Inspector/Surveyor

**John Rosatone, PE**  
- Sr. Structural/Bridge Engineer

**John Nolan, NICET II**  
- Construction Inspector

**Elizabeth Befikadu**  
- Structural Engineer

**Matthew Fagan**  
- Civil Engineer/Const. Inspector

**Samna Ali**  
- Sr. Construction Inspector

**Mohammed Alshoul**  
- Construction Inspector

**Julie Faraci**  
- Construction Secretary

**Nimish Mistry**  
- Structural Engineer

**Steven Nadolny**  
- Construction Inspector

**Alan Tarasenko**  
- Sr. Bridge Inspector/Team Leader

**Vikas Bishnoi**  
- Business Coordinator

**Kanika Jawa**  
- Marketing Coordinator (NYO)